

005541-12900

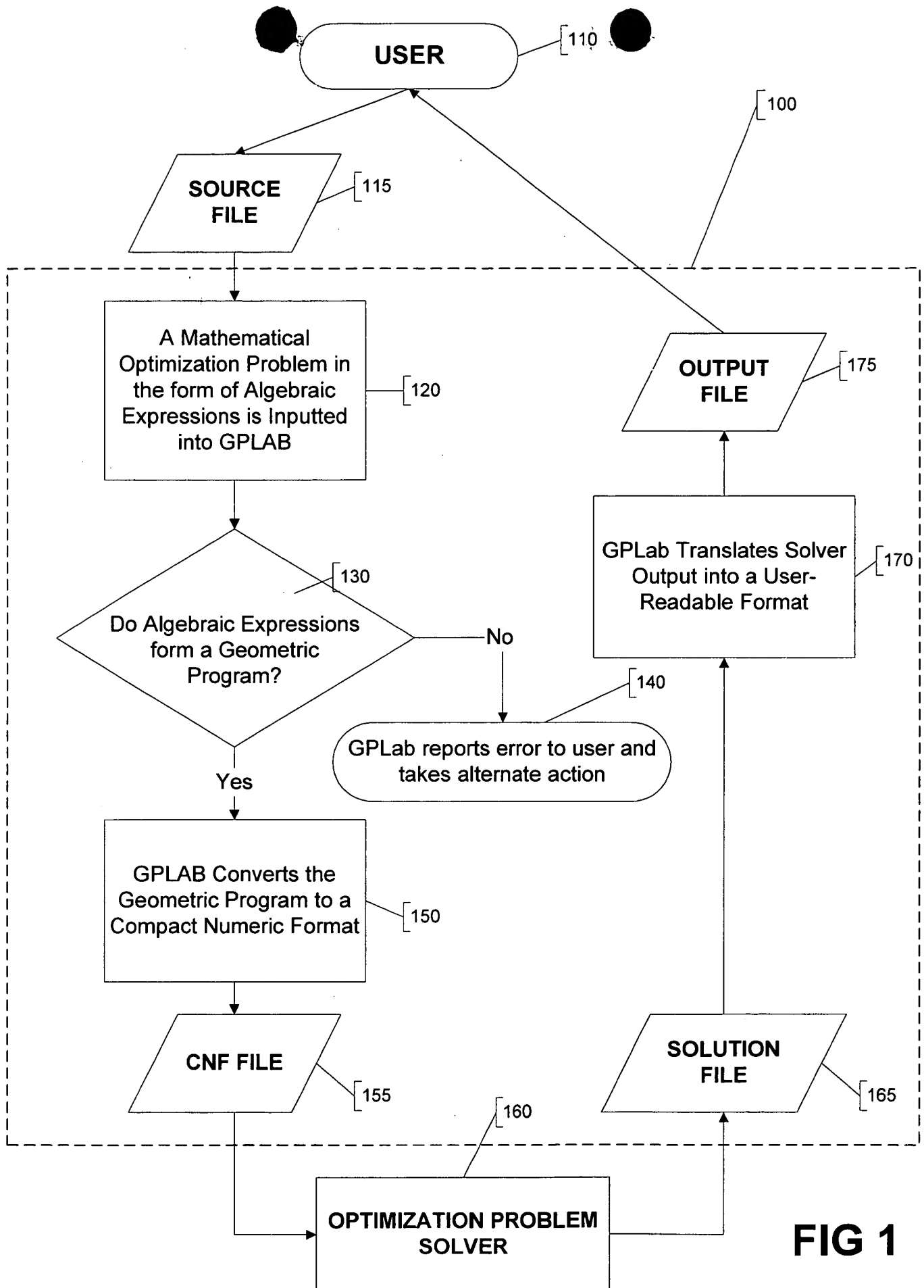


FIG 1

0975344-129900

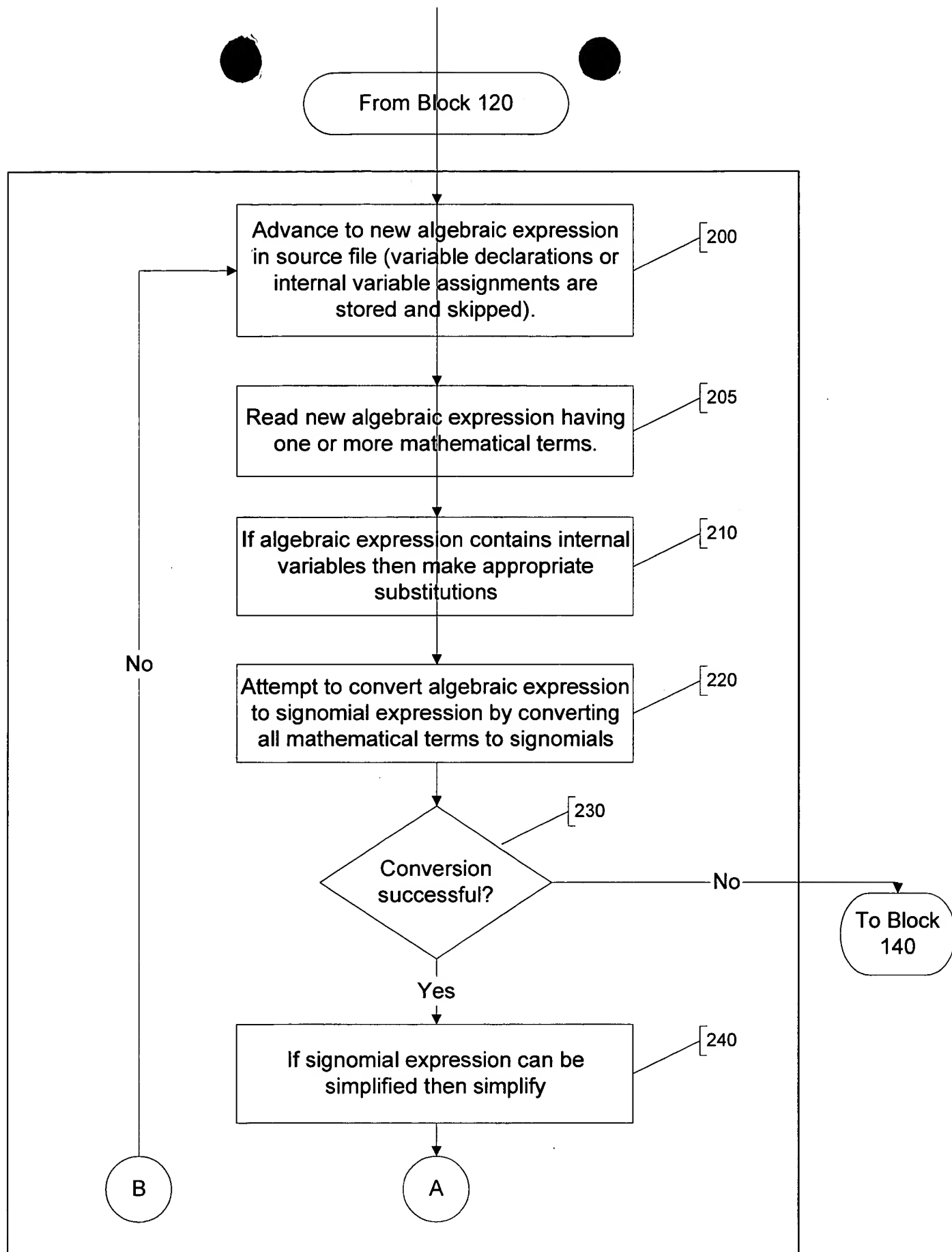


FIG 2A

From Block 120

Advance to new algebraic expression
in source file (variable declarations or
internal variable assignments are
stored and skipped)

Read new algebraic expression having
one or more mathematical terms.

If algebraic expression contains internal
variables then make appropriate
substitutions

Attempt to combine the mathematical
terms such that the algebraic expression
reduces to one of the following:
a) a posynomial objective function
b) a posynomial inequality constraint
c) a monomial equality constraint

Reduction
successful?

Yes

End of Source
File?

Yes

Go to Block 150

[300]

[310]

[320]

[330]

[340]

No

To Block
140

[350]

Optimization Problem
is identified to be a
Geometric Program

FIG 3

No